

AMENDMENTS TO THE CLAIMS

Claims 1 through 5 have been previously cancelled.

Please amend Claim 6 as follows.

6. (Currently Amended) A method for locating a particular mobile station, wherein said particular mobile station is one of a plurality of mobile stations, and wireless signal measurements are capable of being obtained using wireless transmissions between each of the plurality mobile stations and a network of communication stations, each said communication station being for at least one of transmitting and receiving the wireless transmissions, comprising:

first providing access to at least some of a plurality of estimators for estimating locations of said mobile stations, wherein each of said at least some estimators provide a corresponding location estimate when supplied with a corresponding portion of said wireless signal measurements obtained from wireless transmissions between said mobile stations and said network of communication stations;

second providing access to a plurality of data item collections, wherein for each of a plurality of geographical locations, there is a corresponding one of said data item collections having parts (a1) and (a2) following:

(a1) a representation of the geographical location, and
(a2) data indicative of said wireless signal measurements between one of the mobile stations and the communication stations when said one mobile station is approximately at the geographical location of (a1);

for each of said at least some estimators and said data item collections, perform (b1) and (b2) following:

(b1) inputting to the estimator said corresponding portion of said wireless signal measurements obtained from each of said data of (a2) for some of said data item collections for generating corresponding location estimates;
(b2) comparing, for each data item collection (D) of at least some of said data item collections providing input in (b1) above, (b2-1) and (b2-2)

following:

(b2-1) said representation (a1) of D, with

(b2-2) said corresponding location estimate resulting from the
inputting of D in (b1),

30 for determining one or more corresponding performance measurements of
the estimator;

activating one or more of said estimators with their said corresponding portions of
wireless signal measurements obtained using wireless transmissions between the particular
mobile station and said network of communication stations for providing an estimate of one or
35 more locations of said particular mobile station;

obtaining a resulting location estimate for the particular mobile station using the
estimates of said one or more locations;

wherein one of said steps of activating and obtaining is dependent upon one or more of
said performance measurements.

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7. (Previously Presented) The method as claimed in Claim 6, wherein said plurality of estimators
includes an estimator that outputs a location for at least one of the mobile stations that is
dependent upon one of: (a) satellite signals received by said at least one mobile station, (b) a time
5 communication stations, (c) a time difference of arrival measurement of a signal between said at
least one mobile station and the network of communication stations, (d) a recognition of a pattern
in signals communicated between said at least one mobile station and the network of
communication stations, (e) a statistical prediction technique whose output location is dependent
upon said plurality of data item collections, (f) an angle of arrival of signals communicated
10 between said at least one mobile station and the network of communication stations.

8. (Previously Presented) The method as claimed in Claim 6, wherein said step of activating
includes determining said one or more of said estimators using at least one of said corresponding

performance measurements for said one or more estimators.

9. (Previously Presented) The method as claimed in Claim 6, wherein said step of obtaining includes deriving said resulting location estimate from a first location obtained from a first of said one or more estimators, and a second estimate obtained from a second of said one or more estimators.

10. (Previously Presented) The method as claimed in Claim 9, wherein said step of deriving includes determining a most likely location for the particular mobile station using said first and second locations and at least one value obtained from said corresponding performance measurements of said first and second estimators.

11. (Previously Presented) The method as claimed in Claim 6, further including a step of responding to Internet requests with at least said resulting location estimate.

12. (Previously Presented) The method as claimed in Claim 11, wherein said resulting location estimate locates a vehicle.

Claim 13 has been previously cancelled.

14. (Previously Presented) The method as claimed in Claim 6, wherein for one of said at least some estimators, there is a further step of deriving one of said corresponding performance measurements as a value indicative of a likelihood that a location estimate by said one estimator for said particular mobile station identifies one of the locations.

Please amend Claim 15 as follows.

15. (Currently Amended) The method as claimed in Claim 6, further including a step of

partitioning said plurality of (a2) ~~portions~~ parts of said data item collections into a plurality of partition areas, wherein substantially every one of said (a2) ~~portions~~ parts of said data item collections in a first of said partition areas satisfy an associated constraint for said first partition area; and

5 for a first of said at least some estimators, the steps (c1) and (c2) following are performed:

10 (c1) determining a first of said one or more corresponding performance measurements for said first estimator by using said corresponding location estimates from (b1) wherein said some of said data item collections include those of said first partition area; and

15 (c2) associating said first performance measurement with said associated constraint, so that if said wireless signal measurements between said particular mobile station and the communication stations satisfy said associated constraint, then said first performance measurement is indicative of a likelihood that a first location obtained from said first estimator in said step of activating identifies a location of the particular mobile station.

Please amend Claim 16 as follows.

16. (Currently Amended) The method of Claim 15, wherein said wireless signal measurements between the particular mobile station and the communication stations satisfy said associated constraint when one or more of (a) and (b) following occur:

5 (a) said wireless signal measurements between the particular mobile station and the communication stations substantially identify a predetermined set of one or more communication stations ~~identifiers that identify communication stations~~ that detect the particular mobile station, and

(b) said wireless signal measurements between the particular mobile station and the communication stations substantially identify a predetermined set of one or more communication

10 stations ~~identifiers that identify communication stations~~ that are detected by the particular mobile station.

Claim 17 has been previously cancelled.

Please amend Claim 18 as follows.

18. (Currently Amended) A method as claimed in Claim [[95]] 100, wherein

- (a) each said ~~particular~~ first condition includes a geographical location of a mobile station; and
- (b) ~~each~~ said corresponding set of data for identifying the ~~particular~~ first condition includes wireless signal measurements between the mobile station and a network of communication stations.

Please amend Claim 19 as follows.

19. (Currently Amended) The method as claimed in Claim [[95]] 20, wherein said step of accessing includes:

transmitting, on the Internet, a request to said first evaluator for obtaining one of the evaluations of identifying the particular condition;

5 transmitting, on the Internet, a request to a second of the evaluators for obtaining one of the evaluations of identifying the particular condition; and

wherein the resulting evaluation information identification is obtained using the evaluations on identification from each of the first and second evaluators.

Please amend Claim 20 as follows.

20. (Currently Amended) A method for evaluating a particular condition of a plurality of conditions, wherein for substantially every one of said conditions there is a corresponding set of

data for evaluating the condition, comprising:

accessing a classifier for classifying the particular condition into one or more classes of a

5 plurality of classes for said plurality of conditions, wherein said classifier uses said corresponding set of data for the conditions for classifying the conditions;

selecting between two or more [[of]] evaluators for evaluating the particular condition, wherein communication with at least one of said two or more evaluators includes a transmission using the Internet;

10 wherein said step of selecting includes a substep of determining, for each of said evaluators, an indication as to whether information is available in said corresponding set of data for the particular condition for evaluating the particular condition by said evaluator;

activating one or more of said evaluators, selected in said selecting step, for obtaining one or more evaluations of the particular condition, wherein a first of said one or more evaluators 15 receives a portion of said corresponding set of data for the particular condition via the Internet;

first obtaining one or more evaluator related preference data items for identifying a preference among said evaluations, wherein said preference data items are for said one or more classes in which the particular condition is classified;

20 second obtaining resulting evaluation information for the particular condition using at least one of said evaluations of the particular condition and at least one of said preference data items; and

transmitting said resulting evaluation information on the Internet to a predetermined destination.

25 **Please amend Claim 21 as follows.**

21. (Currently Amended) The method of Claim 20, wherein

for each of at least some of said classes, assignment of one or more said conditions to said class is dependent upon a predetermined method of determining a similarity in said corresponding set of data for said conditions assigned to the class; and

5 wherein said step of ~~first~~ second obtaining said resulting evaluation information includes determining a most likely evaluation using a plurality of said evaluations of the particular condition and a corresponding performance measurement for each of said plurality of evaluations.

22. (Previously Presented) The method of Claim 20, wherein said step of first obtaining said one or more evaluator related preference data items includes:

obtaining, for at least one of said one or more evaluators, a corresponding one of said related preference data items by comparing: (1) evaluations obtained from said one evaluator for 5 other of the conditions in at least one of the classes having the particular condition with (2) known correct identifications of the other conditions;

wherein said corresponding one related preference data item includes a value indicative of a likelihood that one of said evaluations, by the one evaluator, of the particular condition is a correct evaluation.

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23. (Previously Presented) The method as claimed in Claim 20, wherein said plurality of conditions is one of:

- (a) economic market related conditions, wherein said evaluators provide forecasts of future economic conditions;
- 5 (b) malfunctions in electronic systems, wherein said evaluators provide diagnoses of the malfunctions;
- (c) text in documents for scanning, wherein said evaluators provide evaluations for identifying the scanned text;
- (d) vehicle malfunctions, wherein said evaluators provide diagnoses of the vehicle malfunctions;
- 10 (e) computer malfunctions, wherein said evaluators provide diagnoses of the computer malfunctions;
- (f) communication network malfunctions, wherein said evaluators provide diagnosis

of the network malfunctions;

15 (g) medical conditions, wherein said evaluators provide diagnoses of the medical conditions; and

(h) weather data, wherein said evaluators provide predictions of future weather conditions.

24. (Previously Presented) The method as claimed in Claim 20, wherein said classes are
5 hierarchically ordered.

25. (Previously Presented) The method as claimed in Claim 20, wherein said resulting evaluation information includes a diagnosis of said particular condition.

10 26. (Previously Presented) The method as claimed in Claim 20, wherein said resulting evaluation information and at least one of said evaluations includes an estimate for said particular condition.

Please amend Claim 27 as follows.

27. (Currently Amended) A method for determining, from a plurality of conditions, a condition (**CNDN**) desired to be identified, wherein for substantially every one of said conditions there is a corresponding set of data for each of one or more of a plurality of estimators for identifying the condition, comprising:

5 obtaining a plurality of classes for said plurality of conditions, wherein for each said class (**C**), at least most of said conditions therein are each identified by predetermined criteria, said predetermined criteria for identifying said corresponding set of data for the conditions in the class **C**;

providing access to [[a]] the plurality of estimators for determining said conditions when
10 said estimators are supplied with said corresponding sets of data for said conditions;

obtaining a plurality of data item collections, wherein for each of said estimators and each of more than one of said conditions, there is one of said data item collections having:

15 (a1) a representation of the condition, and
(a2) a representation of a data set for identifying said condition of (a1);
(a3) an estimate of said condition generated by said estimator when said representation of (a2) is input to said estimator;
activating a first of said estimators with said corresponding set of data for said condition **CNDN** for determining a first estimate for identifying said condition **CNDN**;
20 selecting one or more of said data item collections, wherein for each of said selected data item collections, said estimate of (a3): (i) was generated by said first estimator, and (ii) has a determined relationship to said first estimate that is determined to be satisfied for selecting said one or more data item collections;
determining a second estimate of said condition **CNDN** using said representations of (a1) from said ~~retrieved selected data item collections~~.
25 28. (Previously Presented) The method as claimed in Claim 27, wherein
(a) each said condition includes a geographical location of a wireless mobile station;
and
(b) each said data set includes wireless signal measurements between the mobile station and a network of communication stations.
29. (Previously Presented) An apparatus for locating mobile units, wherein wireless signal measurements are capable of being obtained using wireless transmissions between: (i) the mobile units, and (ii) a plurality of terrestrial communication stations, each said communication station being for at least one of transmitting and receiving the wireless transmissions with the mobile units, comprising:
a predetermined interface for accessing a plurality of estimators, each of the estimators for estimating locations of a plurality of said mobile units, wherein for at least a first and a second of said estimators, (a) the first estimator uses a corresponding input that includes data obtained from signals S received by one of the mobile units being located by the first estimator,

wherein the signals S are received from a transmitting station that is not supported on the earth's surface, and (b) the second estimator uses a second corresponding input for one of the mobile units being located by the second estimator, the second corresponding input includes data obtained from one of (b-1) and (b-2) following for determining a location estimate: (b-1) a time difference of arrival measurement of a signal between one of the mobile units and the communication stations, and (b-2) a recognition of a pattern in signals communicated between one of the mobile units and the communication stations;

wherein the predetermined interface outputs to the first estimator, at a first destination, first information for locating at least some of the mobile units, and outputs to the second estimator, at a second destination, second information for locating at least some of the mobile units;

wherein at least one of: (c1) the first information is transmitted to the first destination via a transmission on a telecommunications network such that the first and second destinations are distributed thereon, and (c2) the second information is transmitted to the second destination via a transmission on a telecommunications network such that the first and second destinations are distributed thereon;

one or more components for receiving location requests for the plurality of mobile units, and initiating contacts via the predetermined interface with one or more of the plurality of estimators for estimating mobile unit locations to satisfy the requests.

30. (Previously Presented) The apparatus of Claim 29, further including an archive having a plurality of data item collections, wherein for each of a plurality of geographical locations, there is a corresponding one of said data item collections having (a1) and (a2) following:

5 (a1) a representation of the geographical location, and
(a2) data indicative of said wireless signal measurements between one of the mobile units and the communication stations when said one mobile unit is approximately at the geographical location of (a1); and

further including a comparator for comparing: for each estimator, E, of at least some of

said estimators, (b1) and (b2) following:

10 (b1) location estimates, each obtained from inputting to the estimator E a corresponding input from an instance of said data of (a2); and

(b2) the corresponding geographical location representations of (a1) for those of the data item collections also having instances of said data of (a2) from which one of the corresponding inputs is used for obtaining the

15 corresponding location estimates in (b1);

wherein a result from said comparator is used for determining at least one corresponding performance measurement for each of the estimators E.

31. (Previously Presented) The apparatus of Claim 29, further including an output interface for outputting mobile unit location information obtained using one or more location estimates obtained from said estimators receiving activation requests from the predetermined interface, wherein said output interface includes an access to the Internet for transmitting said location

5 information, via the Internet, to an Internet accessible destination for which a previous request for said location information was received by said apparatus.

32. (Previously Presented) A method for locating a mobile unit (**MU**), wherein said mobile unit **MU** is one of a plurality of mobile units, and wherein corresponding wireless signal measurements are capable of being obtained using wireless transmissions between each of the plurality of mobile units and a plurality of terrestrial communication stations, each said

5 communication station being for at least one of transmitting and receiving the wireless transmissions with the mobile units, comprising:

first transmitting, via a network, a first activation request for receipt by a first predetermined destination of the network for activating a first location estimating method for estimating a location of the mobile unit **MU**;

10 second transmitting, via a network, a second activation request for receipt by a second predetermined destination, wherein the second activation request is for activating a second

location estimating method, for estimating a same or different location of the mobile unit **MU**;
wherein the first and second predetermined destinations are different from the mobile unit
MU;

15 wherein, for determining a location estimate, each of said first and second location
estimating methods uses data obtained from a different one of (a) and (b) following:

- (a) signals S received by the mobile unit **MU**, the signals S received from a
transmitting station that is not supported on the earth's surface, and
- (b) at least one of (i) and (ii) following:
 - (i) a time difference of arrival measurement of signals between the mobile
unit **MU** and at least two of the communication stations, wherein at least
one of the two communication stations receives a wireless signal from the
mobile unit **MU**, or
 - (ii) wireless signals (WS) communicated between the communication stations
and one or more of the mobile units different from **MU**;

20 25 wherein when an instance of the data is obtained, at least in part, from the time difference
of arrival measurement for determining a location of the mobile unit **MU**, there is a two-way
communication between the mobile unit **MU** and at least one of the communication stations in
order to provide the instance of the data to a corresponding one of first and second location
30 estimating methods;

35 wherein when an instance of the data is obtained, at least in part, from an instance of the
wireless signals WS, a corresponding one of first and second location estimating methods uses
location dependent characteristics of the wireless signals WS to determine a correspondence
between: (1) characteristics of the wireless signals transmitted between the mobile unit **MU**, and
one or more of the communication stations, and (2) a geographical location of the mobile unit
MU;

wherein when activated for locating **MU**, each of the first and second location estimating
methods performs at least one corresponding geographical location determining computation for
locating **MU**, wherein the corresponding computations are performed at network sites distributed

40 from one another.

33. (Previously Presented) A method for locating a mobile unit **MU**, wherein said mobile unit **MU** is one of a plurality of mobile units, and corresponding wireless signal measurements are capable of being obtained using wireless transmissions between each of the plurality mobile units and a plurality of communication stations residing on a surface of the earth, each said 5 communication station being for at least one of transmitting and receiving the wireless transmissions with the mobile units, comprising:

selecting between at least two or more location estimating methods for estimating a location of the mobile unit **MU**, wherein each of first and second of the location estimating methods is dependent upon corresponding data provided by at least one of (a) through (d)

10 following:

- (a) signals received by the mobile unit **MU** from a transmitting station not supported on the earth's surface,
- (b) a time difference of arrival measurement of wireless signals between the mobile unit **MU** and the communication stations,
- (c) an angle of arrival measurement of a signal between the mobile unit **MU** and at least 15 one of the communication stations, and
- (d) wireless signals (WS) transmitted between the communication stations and one or more of the mobile units different from **MU**;

wherein said step of selecting includes a substep of determining, for at least one of said 20 location estimating methods, an indication as to whether information is available for estimating a location of the mobile unit **MU**;

requesting activation of one or more of said first and second location estimating methods, selected in said selecting step, for estimating one or more locations of said mobile unit **MU**;

wherein a preference is given to locating the mobile unit **MU** by one of the location 25 estimating methods: (i) that uses data obtained from available wireless signals received by the

mobile unit **MU** from a transmitting station not supported on the earth's surface, over (ii) locating the mobile unit **MU** by one of the location estimating methods that is more dependent upon the corresponding data available for locating the mobile unit **MU** from (b) through (d) hereinabove;

30 wherein when the corresponding data for a selected location estimating method (LEM) of the first and second location estimating methods is provided, at least in part, by an instance of (c) hereinabove, there is a two-way communication between the mobile unit **MU** and at least one of the communication stations in order to provide the corresponding data to the location estimating method LEM;

35 wherein when the corresponding data for a selected location estimating method (LSM_{WS}) of the first and second location estimating methods includes an instance of the wireless signals WS, the selected location estimating method LSM_{WS} uses location dependent characteristics of the wireless signals WS to determine a correspondence between: (1) characteristics of the wireless signals transmitted between the mobile unit **MU**, and one or more of the communication 40 stations, and (2) a geographical location of the mobile unit **MU**.

Please amend Claim 34 as follows.

34. (Currently Amended) A method for locating mobile units **MU₁** and **MU₂**, wherein said mobile units **MU₁** and **MU₂** are each from a plurality of mobile units, and wireless signal measurements are capable of being obtained using wireless transmissions between each of the plurality of mobile units, and a plurality of communication stations supported on the surface of 5 the earth, each said communication station being for at least transmitting some of the wireless transmissions to the mobile units for determining geographic locations of the mobile units, comprising:

transmitting, to a first destination, a first request for activating a first location estimator for determining a first location estimate of the mobile unit **MU₁**[[,]];

10 wherein for determining the first location estimate, the first location estimator uses first data obtained from signals received by the mobile unit **MU₁** from a transmitting station not

supported on the earth's surface;

providing, to a second destination, a second request for activating of a second location estimator,
~~to a second destination,~~ for determining a second location estimate of the mobile unit **MU₂** using

15 second data obtained from location indicative data from one or more signals communicated
between the mobile unit **MU₂** and one of the communication stations, wherein there is a two-way
communication between the mobile unit **MU₂** and at least one of the communication stations in
order to provide the second data to the second location estimator, the second data providing
information indicative of a position of **MU₂** relative to at least one of the communication
20 stations;

wherein the first and second destinations are distributed from one another on a
telecommunications network, wherein at least one of the first and second location estimates is
transmitted on the telecommunications network to a predetermined site on the
telecommunications network as a response to a corresponding one of the first and second
25 requests; and

wherein for locating at least one mobile unit (**MU_n**) of the plurality of mobile units, a
preference is given for: (i) determining a location of the mobile unit **MU_n** using data (D)
obtained from wireless signals received by the mobile unit **MU_n** from a transmitting station not
supported on the earth's surface, over (ii) determining a location of the mobile unit **MU_n** using,
30 instead of the data D, alternative available location indicative data obtained from one or more
signals communicated between the mobile unit **MU_n** and one of the communication stations,
wherein there is a two-way communication between the mobile unit **MU_n** and at least one of the
communication stations in order to obtain the alternative location data, wherein the alternative
location data provides information indicative of a position of **MU_n** relative to at least one of the
35 communication stations ~~mobile~~.

35. (Previously Presented) A method for locating mobile units, wherein wireless signal
measurements are capable of being obtained using wireless transmissions between each of the
plurality mobile units and a plurality of communication stations supported on the surface of the

earth, each said communication station being for at least one of transmitting and receiving the wireless transmissions with the mobile units for determining geographic locations of the mobile units, comprising:

selecting between first and second location estimating methods, or location estimates therefrom, for estimating a location of one of the mobile units (**MU₁**), wherein for obtaining a location estimate of the mobile unit **MU₁**, said first location estimating method is dependent upon corresponding data obtained using signals received by the mobile unit **MU₁** from a transmitting station not supported on the earth's surface, and said second location estimating method is dependent upon corresponding data obtained using wireless signals (**WS**) communicated between the communication stations and one or more of the mobile units different from **MU₁**;

wherein said step of selecting includes a substep of determining, for at least one of said first and second location estimating methods, an indication as to an availability of an acceptable resulting location estimate for the mobile unit **MU₁**.

Claim 36 has been previously cancelled.

Claim 37 has been previously cancelled.

38. (Previously Presented) The method of Claim 34, further including:

- (a) a step of activating one or more location estimators for obtaining one or more additional location estimates of a location of one of said mobile units **MU₁** and **MU₂**, and
- 5 (b) a step of outputting location information based, at least in part, on at least one of the additional location estimates;

wherein said step of activating is for obtaining a more accurate location estimate of the one mobile unit.

10 **Please amend Claim 39 as follows.**

39. (Currently Amended) The method of Claim 38, further including a step of using a frequency of performing said step of outputting for providing one or more instances of said location information to a location information receiving application.

40. (Previously Presented) The method of Claim 39, wherein said location information receiving application uses the location information for a predetermined service.

41. (Previously Presented) The method of Claim 39, wherein said location information receiving application is for determining whether there is a predetermined distance between the one mobile unit and another one of the mobile units.

Please amend Claim 42 as follows.

42. (Currently Amended) The method of Claim 20, wherein the activating step includes activating the first evaluator, and a second of said evaluators for determining, respectively, a first and a second evaluation of said particular condition; and

5 further including the steps of:

determining, for said first evaluation, a first of preference measurement from the preference data items, wherein the first preference measurement is indicative of a performance of the first evaluator in at least one of the classes which the particular condition is classified;

10 determining, for said second evaluation, a second of preference measurement from the preference data items, wherein the second preference measurement is indicative of a performance of the second evaluator in at least one of the classes which the particular condition is classified;

wherein the preference [[P]] is determined using the first and second preference measurements; and

wherein the step of second obtaining includes obtaining the resulting evaluation for the

particular condition using the preference [[P]] to give a preference to one of said first and second evaluations.

15 43. (Previously Presented) The method of Claim 42, wherein the particular condition relates to a geographic location of a user station that is interactive on a network.

44. (Previously Presented) The method of Claim 20, wherein the selecting step includes selecting the at least one evaluator wherein communication with the at least one evaluator includes the transmission via the Internet.

45. (Previously Presented) The apparatus of Claim 29, wherein said predetermined interface for accessing includes a routing component for providing information that is used in routing at least one instance of each of the first and second requests via a transmission on the Internet.

46. (Previously Presented) The apparatus of Claim 29, wherein the transmitting station not supported on the earth's surface includes a satellite.

47. (Previously Presented) The apparatus of Claim 29, wherein for at least one mobile unit (**U**₁) of the mobile units, the corresponding input for the first estimator includes data obtained from signals received by **U**₁ from a transmitting station (TS) not supported on the earth's surface, wherein the first estimator determines a location of **U**₁ that is dependent upon a signal time delay 5 of the signals from TS to **U**₁, and

wherein for at least one mobile unit (**U**₂) of the mobile units, the corresponding input for the second estimator includes a time difference of arrival measurement of signals between **U**₂, and at least two terrestrial communication stations of the communication stations.

48. (Previously Presented) The apparatus of Claim 47, wherein at least one of the two terrestrial communication stations receives a wireless signal from **U**₂ substantially at a time that

U₂ is being located.

49. (Previously Presented) The apparatus of Claim 29, wherein for at least one mobile unit (**U₁**) of the mobile units, the corresponding input for the first estimator includes data obtained from signals received by **U₁** from a transmitting station (TS) not supported on the earth's surface, wherein the first estimator determines a location of **U₁** that is dependent upon a signal time delay
5 of the signals from TS to **U₁**, and

wherein for at least one mobile unit (**U₂**) of the mobile units, the corresponding input for the second estimator includes data obtained from signals communicated between the mobile unit **U₂** and the communication stations, wherein the second estimator has been trained or calibrated using values obtained from transmissions of wireless signals from a plurality of locations of one
10 or more of the mobile units to associate: (1) wireless signal characteristics obtained from the signals communicated between the mobile unit **U₂** and the communication stations with (2) a geographical location used for locating the mobile unit **U₂**.

50. (Previously Presented) The apparatus of Claim 29, wherein for at least one mobile unit (**U₁**) of the mobile units, the corresponding input for the first estimator includes data obtained from the time difference of arrival measurement of signals between **U₁**, and at least two terrestrial communication stations of the communication stations, and

5 wherein for at least one mobile unit (**U₂**) of the mobile units, the corresponding input for the second estimator includes data obtained from signals communicated between the mobile unit **U₂** and the communication stations, wherein the second estimator has been trained or calibrated using values obtained from transmissions of wireless signals from a plurality of locations of one
10 or more of the mobile units to associate: (1) wireless signal characteristics obtained from the signals communicated between the mobile unit **U₂** and the communication stations with (2) a geographical location used for locating the mobile unit **U₂**.

51. (Previously Presented) The apparatus of Claim 29, wherein, the initiated contacts with the

first estimator depends on whether said corresponding input is available for said first estimator.

52. (Previously Presented) The apparatus of Claim 51, wherein, the initiated contacts with the second estimator depends on whether said corresponding input is available for said second estimator.

Please amend Claim 53 as follows.

53. (Currently Amended) The apparatus of Claim 29, wherein for at least one of the mobile units (**U₁**), the one or more components directs the predetermined interface to provide a first activation request to the first estimator, wherein the first estimator locates **U₁** using data obtained from an instance of the signals S transmitted from an instance of the transmitting station [[TS]]

5 to **U₁**, wherein the first estimator determines a location of **U₁** using a signal time delay of the instance of the signals S;

wherein for at least one location of one of the mobile units (**U₂**), the one or more components directs the predetermined interface to provide a second activation request to the second estimator, wherein the second estimator locates **U₂** using data obtained from an instance 10 of the time difference of arrival measurement of signals between **U₂** and at least two terrestrial communication station of the communication stations; and

wherein for at least one location of one of the mobile units (**U₃**), the one or more components directs the predetermined interface to provide a third activation request to a third of the estimators, wherein the third estimator locates **U₃** using data obtained from an instance of 15 wireless signals communicated between **U₃** and the communication stations, wherein for estimating the location of **U₃**, the third estimator has been trained or calibrated, using values obtained from wireless transmissions of wireless signals from a plurality of locations of the mobile units, to associate: (1) wireless signal characteristics obtained from the instance of the wireless signals communicated between **U₃** and the communication stations with (2) a 20 geographical location for the mobile unit **U₃**.

54. (Previously Presented) The apparatus of Claim 53, wherein each of the mobile units **U₁**, **U₂**, and **U₃** is different from the other two of the mobile units **U₁**, **U₂**, and **U₃**.

55. (Previously Presented) The apparatus of Claim 53, wherein each of the mobile units **U₁**, **U₂**, and **U₃** is at a substantially different location when located.

56. (Previously Presented) The apparatus of Claim 53, wherein at least two of the mobile units **U₁**, **U₂**, and **U₃** are the same mobile unit.

57. (Previously Presented) The apparatus of Claim 29, wherein for estimating a location of at least one mobile unit (**U₁**) of the mobile units, one of the first and second estimators has been trained or calibrated using values obtained from wireless signals for prior locations of one or more different ones of the mobile units to associate or correlate: (1) wireless signal

5 characteristics obtained from wireless signals transmitted between the mobile unit **U₁** and at least one of the communication stations, with (2) a geographical location for the mobile unit **U₁**.

Please amend Claim 58 as follows.

58. (Currently Amended) The method of Claim 29, wherein in order to locate one of the mobile units, an instance of the second corresponding input includes data obtained from a time difference of arrival measurement of signals between the one mobile unit being located, and at least two terrestrial communication stations of the communication stations;

5 wherein there is a two-way communication between the one mobile unit [[MU]] and at least one of the communication stations for obtaining the instance of the second corresponding input ~~of (b)~~.

59. (Previously Presented) The method of Claim 58, wherein each of the first and second

destinations corresponds to a server site of a same telecommunications network.

60. (Previously Presented) The method of Claim 32, wherein the network by which said first estimating method is activated is the Internet, and the network by which said second estimating method is activated is the Internet.

61. (Previously Presented) The method of Claim 32, wherein at least one of the first and second location estimating methods provide a location estimate of the mobile unit **MU** according to (b)(ii).

62. (Previously Presented) The method of Claim 32, wherein a location estimate for the mobile unit **MU** from the first location estimating method is independent of a location estimate for the mobile unit **MU** from the second location estimating method, and a location estimate for the mobile unit **MU** from the second location estimating method is independent of a location estimate for the mobile unit **MU** from the first location estimating method.

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63. (Previously Presented) The method of Claim 32, wherein one or more of: the first transmitting step, and the second transmitting step includes transmitting on the Internet.

64. (Previously Presented) The method of Claim 32, wherein at least one of the first and second location estimating methods provides a location estimate of the mobile unit **MU** according to (a), and the transmitting station is a satellite.

65. (Previously Presented) The method of Claim 32, further including a step of outputting location information for the mobile unit **MU**, wherein the location information includes a representation of a first location of the mobile unit **MU**, at a first time, obtained using a location estimate from the first location estimating method, and the location information includes a representation of a second location of the mobile unit **MU**, at a second time, obtained using a

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location estimate from the second location estimating method, wherein the first and second locations are different.

66. (Previously Presented) The method of Claim 32, further including receiving a location estimate from the first location estimating method when information is available from corresponding wireless signal measurements for estimating a location of the mobile unit **MU** by the first location estimating method; and

5 receiving a location estimate from the second location estimating method when information is available from corresponding wireless signal measurements for estimating a location of the mobile unit **MU** by the second location estimating method.

67. (Previously Presented) The method of Claim 32, further including, for a mobile unit (**U₁**) of the mobile units, a step of receiving a location estimate substantially dependent upon signals S_1 received by the mobile unit **U₁**, the signals S_1 received from a transmitting station that is not supported on the earth's surface; and

5 for a mobile unit (**U₂**) of the mobile units, a step of receiving a second location estimate substantially dependent upon a time difference of arrival measurement of signals between the mobile unit **U₂** and the communication stations, wherein at least one of the communication stations receives a wireless signal S_2 from the mobile unit **U₂**, and S_2 is used to provide input to a corresponding one of first and second location estimating methods for determining the second

10 location estimate; and

wherein **U₁** and **U₂** are different.

Please amend Claim 68 as follows.

68. (Currently Amended) The method of Claim 67, further including, for a mobile unit (**U₃**) of the mobile units, a step of receiving a location estimate (LE), wherein the location estimate LE is determined using values of a wireless transmissions, T, from a plurality of locations of the

plurality of mobile units different from the mobile unit **U**₃;

5 wherein LE is determined as a result of a step is performed of one of adaptively associating or statistically correlating the values of the wireless transmissions T with data from wireless signals communicated between the mobile unit **U**₃ and the communication stations.

69. (Previously Presented) The method of Claim 32, wherein for determining the location of the mobile unit **MU**, and for each of the first and second location estimating methods, at least one geographical location determining computation using data from wireless signals communicated between the mobile unit **MU** and the communication stations is performed at a

5 location remote from the location of the mobile unit **MU**.

70. (Previously Presented) The method of Claim 32, wherein each of the first and second predetermined destinations are server sites on a same telecommunications network.

71. (Previously Presented) The method of Claim 32, wherein for each mobile unit (**U**_k) of a plurality mobile units different from the mobile unit **MU**, at least one value obtained from a wireless transmission between the different mobile unit **U**_k to the communication stations is used for associating, or statistically correlating: (1) data from wireless signals communicated between

5 the mobile unit **MU** and the communication stations, and (2) a geographical location of **MU**.

72. (Previously Presented) The method of Claim 32, further including a step of receiving one or more location estimates for locating the mobile unit **MU**, the location estimates obtained from one or more of the first and second location estimating methods; and

5 transmitting location information determined from the one or more location estimates to a predetermined destination as a response to a location request for locating the mobile unit **MU**.

73. (Previously Presented) The method of Claim 33, wherein for one of the first and second location estimating methods, the corresponding data includes data provided by (a), and

wherein for the other of the first and second location estimating methods, the corresponding data therefor includes a collection of the wireless signals WS, wherein this other
5 location estimating method has been trained or calibrated using location dependent characteristics of the collection of wireless signals WS to associate: (1) characteristics of the wireless signals transmitted from the mobile unit **MU** to at least one of the communication stations, with (2) a geographical location for locating the mobile unit **MU**.

74. (Previously Presented) The method of Claim 33, wherein for one of the first and second location estimating methods, the corresponding data includes data provided by (b); and

wherein for the other of the first and second location estimating methods, the corresponding data therefor includes a collection of the wireless signals WS, wherein this other
5 location estimating method has been trained or calibrated using location dependent characteristics of the collection of wireless signals WS to associate: (1) characteristics of the wireless signals transmitted from the mobile unit **MU** to at least one of the communication stations, with (2) a geographical location for locating the mobile unit **MU**.

75. (Previously Presented) The method of Claim 33, wherein requests for activating the first location estimating method for locating at least some of the mobile units includes contacting a predetermined first destination, and requests for activating the second location estimating method for locating at least some of the mobile units includes contacting a predetermined second
5 destination, and the predetermined first and second destinations are different from the mobile unit **MU**.

76. (Previously Presented) The method of Claim 75, wherein the predetermined first and second destinations are different from one another.

77. (Previously Presented) The method of Claim 33, wherein for at least one mobile unit (**U₁**) of the mobile units, a location estimating method (E) of the two or more location estimating

methods is used to locate **U₁**, wherein the estimator E uses satellite signals received by the mobile unit **U₁**.

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78. (Previously Presented) The method of Claim 33, wherein for at least one mobile unit (**U₁**) of the mobile units, a location estimating method (E) of the two or more location estimating methods is used to locate **U₁**, wherein the location estimating method E uses a time difference of arrival measurement of a signal between the mobile unit **U₁** and the communication stations,

5 wherein there is a two-way communication between the mobile unit **U₁** and at least one of the communication stations in order to provide input to the location estimating method E.

79. (Previously Presented) The method of Claim 33, wherein for at least one mobile unit (**U₁**) of the mobile units, a location estimating method (E) of the two or more location estimating methods is used to locate **U₁**, wherein the location estimating method E uses an angle of arrival measurement of a signal between the mobile unit **U₁** and at least one of the communication

5 stations.

80. (Previously Presented) The method of Claim 33, wherein for at least one mobile unit (**U₁**) of the mobile units, a location estimating method (E) of the two or more location estimating methods is used to locate **U₁**, wherein the location estimating method E is dependent upon information obtained from a collection of the wireless signals received at the communication

5 stations from one or more of the mobile units different from **U₁**, wherein the information from the collection is input to the location estimating method E for training or calibrating E to identify a corresponding geographical location for **U₁** from characteristics of wireless signals communicated between **U₁** and one or more of the communication stations.

81. (Previously Presented) The method of Claim 33, wherein at least one of the first and second location estimating methods is substantially dependent upon an instance of the corresponding data provided by a particular one of (a) through (d), and the other of the first and

second location estimating methods is not substantially dependent on the particular one;

5 wherein the requesting activation step includes a step of providing to a first destination a first request for activating the first estimator, and for providing to a second destination a second request for activating the second estimator, wherein at least the first request is provided to the first destination via a transmission on a communications network such that the first and second destinations correspond to distinct server sites on the communications network,

82. (Previously Presented) The method of Claim 33, wherein the transmitting station is a satellite.

83. (Previously Presented) The method of Claim 33, further including outputting, to a destination, location information that provides at least one location of the mobile unit **MU**, the location information obtained using one or more location estimates provided by said one or more of the first and second of said location estimating methods;

5 wherein the destination uses the location information, and the step of outputting includes a transmission on a communications network.

84. (Previously Presented) The method of Claim 34, wherein at least one of first and second requests is received by an Internet server site corresponding to one of the first and second destinations.

85. (Previously Presented) The method of Claim 34, wherein the telecommunications network includes server sites for the first and second destinations.

86. (Previously Presented) The method of Claim 34, wherein the location indicative data from the one or more signals communicated between the mobile unit **MU₂** and one of the communication stations includes at least one of:

(a) a time of arrival measurement of a signal communicated between the mobile unit

5 **MU₂** and one of the communication stations, wherein there is a two-way communication between the mobile unit **MU₂** and at least one of the communication stations in order to provide the second data to the second location estimator;

10 (b) a time difference of arrival measurement of a signal between the mobile unit **MU₂** and the communication stations, wherein there is a two-way communication between the mobile unit **MU₂** and at least one of the communication stations in order to provide the second data to the second location estimator;

15 (c) data for identifying a direction of arrival measurement of a signal between the mobile unit **MU₂** and one of the communication stations; and

15 (d) wireless signals (WS₂) communicated between the communication stations and one or more of the mobile units different from **MU₂**, wherein the second location estimator uses location dependent characteristics of the wireless signals WS₂ to determine a correspondence between: (1) characteristics of the wireless signals transmitted between the mobile unit **MU₂**, and one or more of the communication stations, and (2) a geographical location of the mobile unit **MU₂**.

87. (Previously Presented) The method of Claim 86, wherein the second location estimator requires data obtained from the wireless signals WS₂.

88. (Previously Presented) The method of Claim 87, wherein to obtain a geographical location for **MU₂** from the second location estimator, values obtained from the wireless signals WS₂ are associated with, or statistically correlated with, data from wireless signals communicated between the mobile unit **MU₂** and the communication stations.

89. (Previously Presented) The method of Claim 86, wherein the second location estimator requires data obtained from the data for identifying a direction of arrival measurement.

90. (Previously Presented) The method of Claim 34, further including, for at least one of the

mobile units **MU₁** and **MU₂**, a step of selecting the corresponding first or second location estimator, wherein the step of selecting is dependent upon an availability of the corresponding first and second data.

91. (Previously Presented) The method of Claim 34, further including obtaining a location estimate of the mobile unit **MU₁** from the first location estimator via the telecommunications network; and

transmitting to a network address, location information that provides a location of the
5 mobile unit **MU₁**, the location information obtained using the first location estimate, and the network address used for providing the location information to a predetermined application that uses the location information for performing a predetermined service.

92. (Previously Presented) The method of Claim 35, wherein when the corresponding data for a selected one of the first and second location estimating methods, or location estimate therefrom, is obtained using an instance of the wireless signals **WS**.

93. (Previously Presented) The method of Claim 92, wherein the selected location estimating method, or location estimate therefrom, is dependent upon characteristics of the wireless signals **WS** to determine a correspondence between: (1) characteristics of the wireless signals transmitted between the mobile unit **MU₁**, and one or more of the communication stations, and
5 (2) a geographical location of the mobile unit **MU₁**.

94. (Previously Presented) The method of Claim 35, further including a step of requesting activation of at least said first location estimating method for estimating one or more locations of said mobile unit **MU₁**, wherein the corresponding data for said first location estimating method is obtained from the signals received by the mobile unit **MU₁** from a satellite.

95. (Previously Presented) The method of Claim 35, further including first requesting

activation of at least one of the first and second location estimating methods for obtaining a first location estimate of **MU₁**, wherein the activation request is transmitted to a first destination, via a transmission on a communications network.

96. (Previously Presented) The method of Claim 95, further including a step of providing to a second destination, a request for activation of the other of the first and second location estimating methods different from the at least one location estimating method, the request for activation of the other location estimating method for obtaining a second location estimate of a second of the mobile units **MU₂**.

Please amend Claim 97 as follows.

97. (Currently Amended) The method of Claim 96, wherein the other location estimating method is activated for estimating the second location estimate ~~one or more locations~~ of the second mobile unit **MU₂**, wherein the activation of the other location estimating method is dependent upon wireless signals (**WS₂**) communicated between the communication stations and 5 one or more of the mobile units different from **MU₂**.

98. (Previously Presented) The method of Claim 35, wherein the first and second location estimating methods are, respectively, accessed via first and second destinations that are distributed from one another on a communications network;

wherein for at least one of a first request for activating the first location estimating 5 method, and a second request for activating the second location method, at least one resulting location estimate therefrom is transmitted on the communications network to a predetermined site on the communications network as a response to a corresponding one of the first and second requests.

99. (Previously Presented) The method of Claim 35, wherein for locating the mobile unit **MU₁**, there are one or more mobile units (**MU_k**) of the mobile units different from **MU₁**, wherein

at each of one or more locations of each of the mobile units \mathbf{MU}_k , one or more values of one or more wireless transmissions between the mobile unit \mathbf{MU}_k and the communication stations are
5 used in training, or stochastically correlating, the second location estimating method to associate: (i) each of a plurality of geographic locations, and (ii) for each of the geographic locations, GL, corresponding values of wireless communications between the communication stations and the geographic location GL.

10 **Please amend Claim 100 as follows.**

100. (Currently Amended) A method for determining, from a plurality of conditions, first and second conditions, comprising:

providing access to a plurality of evaluators for identifying said conditions, wherein each of said evaluators determine condition identifications when supplied with an available

5 corresponding set of data for one or more of said conditions to be identified, and wherein for at least a first of said evaluators access is provided via the Internet;

evaluating a performance of first and second of the evaluators so that a first indication of a likely effectiveness is associated with condition identifications from the first evaluator, and a second indication of a likely effectiveness is associated with condition[[s]] identifications from

10 the second evaluator;

first selecting between the first and second evaluators for identifying the first condition, and contacting the first evaluator, via the Internet, for identifying the first condition;

first obtaining from the first evaluator, a first condition identification via the Internet;

15 first determining, using the first condition identification, first resulting information for identifying the first condition;

wherein the step of first determining includes accessing the first indication of a likely effectiveness when generating the first resulting information;

second selecting between the first and second evaluators for identifying the second condition, and contacting the second evaluator for identifying the second condition, the second 20 evaluator contacted at a site different from a site contacted in said step of contacting the first

evaluator;

second obtaining, from the second evaluator, a second condition identification;
second determining, using the second condition identification, second resulting information for identifying the second condition;

25 wherein the step of second determining includes accessing the second indication of a likely effectiveness when generating the second resulting information.

101. (Previously Presented) The method as claimed in Claim 100, wherein said plurality of conditions is one of:

- (a) economic market related conditions, wherein said evaluators provide forecasts of future economic conditions;
- 5 (b) malfunctions in electronic systems, wherein said evaluators provide diagnoses of the malfunctions;
- (c) text in documents for scanning, wherein said evaluators provide evaluations for identifying the scanned text;
- (d) vehicle malfunctions, wherein said evaluators provide diagnoses of the vehicle malfunctions;
- 10 (e) computer malfunctions, wherein said evaluators provide diagnoses of the computer malfunctions;
- (f) communication network malfunctions, wherein said evaluators provide diagnosis of the network malfunctions;
- (g) medical conditions, wherein said evaluators provide diagnoses of the medical conditions; and
- 15 (h) weather data, wherein said evaluators provide predictions of future weather conditions.

Please amended Claim 102 as follows.

102. (Currently Amended) The apparatus of Claim 29, wherein for one of the mobile units (**M₁**) wherein a location estimate (LE₁) is obtained from the first estimator, there is no corresponding location estimate for the mobile unit[[s]] **M₁** from the second estimator for substantially a same time and location of **M₁** that LE₁ is obtained.

103. (Previously Presented) The apparatus of Claim 29, wherein for one of the mobile units (**M₁**) wherein a location estimate (LE₁) is obtained from the first estimator, there is a location estimate (LE₂) for **M₁** from the second estimator for substantially a same time and location of **M₁** that LE₁ is obtained, and each of LE₁ and LE₂ is determined substantially independently of the
5 other of LE₁ and LE₂.

Please amend Claim 104 as follows.

104. (Currently Amended) The apparatus of Claim 30, wherein for determining a location estimate (LE) of a particular one of the mobile units, at least one of the corresponding performance measurements [[are]] is used for determining a probability of the location estimate LE correctly identifying an actual location of the particular mobile unit.